F. TENT COOPERATION TREA. Y

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file refe	FOR FURTHER A	FOR FURTHER ACTION See Form PCT/IPEA/416								
International application No. PCT/US2005/002298	International filing date 25.01.2005	(day/month/year) Priority date (day/month/year) 06.02.2004								
	ation (IPC) or national classification and I	PC								
Applicant L & P PROPERTY MA	NAGEMENT COMPANY et al.									
This report is the in Authority under Arti	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT cons	sists of a total of 9 sheets, including t	this cover sheet.								
3. This report is also	accompanied by ANNEXES, comprisi	ing:								
a. 🗆 sent to the a	applicant and to the International Bure	eau) a total of sheets, as follows:								
☐ sheets	of the description, claims and/or draw	rings which have been amended and are the basis of this report rized by this Authority (see Rule 70.16 and Section 607 of the								
beyond Supple	the disclosure in the international ap mental Box.	which this Authority considers contain an amendment that goes plication as filed, as indicated in item 4 of Box No. I and the								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).										
4. This report contain	s indications relating to the following	items:								
☑ Box No. I	Basis of the opinion									
☐ Box No. II	Priority									
☑ Box No. III	Non-establishment of opinion with req	ard to novelty, inventive step and industrial applicability								
	ack of unity of invention									
⊠ Box No. V	- the second sec									
	Certain documents cited									
1	Certain defects in the international ap									
☐ Box No. VIII	onal application									
Date of submission of the demand		Date of completion of this report								
11.11.2005		29.12.2005								
Name and mailing address preliminary examining aut	nority:	Authorized Officer								
European P D-80298 Mg	ınich	Meyer, T								
O Tel. +49 89	2399 - 0 Tx: 523656 epmu d 2399 - 4465	Telephone No. +49 89 2399-								

International application No.

PCT/US2005/002298

Basis of the report Box No. I 1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): **Description**, Pages as originally filed 1-14 Claims, Numbers as originally filed 1-11 **Drawings, Sheets** received on 25.04.2005 with letter of 17.03.2005 1/6-6/6 a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing 3.

The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify): 4.

This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):

If item 4 applies, some or all of these sheets may be marked "superseded."

International application No. PCT/US2005/002298

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial							
		licability						
1.	The obv	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ovious), or to be industrially applicable have not been examined in respect of:						
		the entire international application,						
	\boxtimes	claims Nos. 5-11						
		because:						
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):						
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
	\boxtimes	no international search report has been established for the said claims Nos. 5-11						
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Ani C of the Administrative Instructions in that:						
		the written form		has not been furnished				
				does not comply with the standard				
		the computer readable form		has not been furnished				
				does not comply with the standard				
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, d not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.						
		See separate sheet for further	deta	ils				

International application No. PCT/US2005/002298

	Во	x No. IV	Lack of unity	of invention							
1.		 In response to the invitation to restrict or pay additional fees, the applicant has: □ restricted the claims. □ paid additional fees. □ paid additional fees under protest. ☑ neither restricted nor paid additional fees. 									
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.									
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is										
	□ complied with.										
	Ø	not con	nplied with for th	e following rea	asons:						
		see se	parate sheet								
4.	. Consequently, this report has been established in respect of the following parts of the international application:						olication:				
	☐ all parts.										
	\boxtimes										
_	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									ndustrial	
1.	Sta	atement									
	No	ovelty (N)		Yes: No:	Claims Claims	1-5					
	Inv	ventive s	tep (IS)	Yes: No:	Claims Claims	1-5					
	Ind	dustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-5					
2	. Ci	tations a	nd explanations	(Rule 70.7):							

see separate sheet

International application No. PCT/US2005/002298

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and/or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

10/587439 AP20 Rac'd PCTintan Aniana application 16.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/US2005/002298

State of the Art:

During the procedure, reference is made to the following documents:

- D1: DE 44 12 898 A1 (ORLOWSKI, BERNHARD, DIPL.-ING., 70176 STUTTGART, DE) 19 October 1995 (1995-10-19)
- D2: DE 103 14 771 A1 (ROBERT BOSCH GMBH) 14 October 2004 (2004-10-14)
- D3: US-A-4 918 344 (CHIKAMORI ET AL) 17 April 1990 (1990-04-17)
- D4: US-A-4 050 331 (BRAREN ET AL) 27 September 1977 (1977-09-27)
- D5: WO 01/48397 A (DIRO GMBH & CO. KG; TOMCZYK, HUBERT) 5 July 2001 (2001-07-05)
- D6: DE 299 05 163 U1 (ASEC GMBH, 51702 BERGNEUSTADT, DE) 1 July 1999 (1999-07-01)
- D7: US-A-5 429 558 (LAGARDE ET AL) 4 July 1995 (1995-07-04)

Regarding D3, see "ad Re VI." below.

Ad Re IV.:

- The application relates to a plurality of inventions or groups of inventions, in the sense of Rule 13.1 PCT, in particular the claims form three separate groups of subjectmatter/inventions:
- 1.1. Claims 1 to 5 relating to a hollow axle motor assembly comprising substantially an electric motor and a hollow axle, wherein said axle drives a planetary gearing which drives an inner output shaft.
- 1.2. Claims 6 to 10 relating to a track dive mechanism comprising inter alia a hollow axle motor assembly comprising substantially an electric motor and a hollow axle, wherein said axle drives two tracks and a housing of the electric motor drives unlocking mechanisms for said tracks.
- 1.3. Claim 11 relating substantially a seat comprising substantially a seat bottom, a seat back and an a hollow axle motor assembly comprising substantially an electric motor, a hollow axle and a housing,

wherein the axle drives the seat bottom, said housing drives said seat back.

1.4. The common among claims 1, 6 and 11 is thus substantially represented by the features

"a hollow axle motor assembly comprising substantially an electric motor and a hollow axle".

Said concept is however not novel, see for example document **D3** or **D1** (see § ad re V. below).

1.5. If the applicant pays additional fees for the two not yet searched groups of inventions, then the further searches may reveal further prior art that gives evidence of a further lack of unity 'a posteriori' within the not yet searched groups. In such a case only the first invention in these groups of inventions, which is considered to lack unity of invention, will be the subject of a search. No further invitation to pay further additional fees will be issued. This is because Article 17(3)(a) PCT stipulates that the ISA shall establish the International Search Report on those parts of the international application which relate to the invention first mentioned in the claims ('main invention') and for those parts which relate to inventions in respect of which the additional fees were paid. Neither the PCT nor the PCT guidelines provide a legal basis for further invitations to pay further additional search fees (W17/00, point 11 and W1/97, points 11-16).

Ad Re Item V.:

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1, which is considered to represent the most relevant prior art, discloses in the embodiment of Fig. 3

a hollow axle motor assembly comprising substantially

- electric motor 3, 4
- hollow shaft 27
- first gear 28
- planetary gear drive assembly 20, 21, 28

- drive shaft 26
- drive shaft mount 26, 21.

Thus the present wording of claim 1 is so broad, that D1 completely covers its scope.

- 2. Important note regarding inventive step (Art. 33(1) PCT):
- 2.1. The assembly of D3 differs from the assembly of claim 1 only in that rollers instead of "gears" are used. However it would be per se obvious to the skilled person to replace the rollers of D3 by common gears while maintaining the general structure.
- 2.2 It is noted that the very general idea to use a hollow ring gear of a planetary gear stage as input is of course already known, see for example D4, column 6, lines 14ff.
 - Thus in particular D3 and D4 must be taken into consideration regarding inventive step in any future procedural step.
- 3. The dependent claims 2 to 4 define very general details which are also known by at least D1. See for example items 1 and 2 of D1 for the "cover" of claim 3, or see the "Aggregat" according to column 3, line 5 of D1 for claim 4. The diameter of shaft 26 is of course smaller than that of shaft 27, cf. claim 5 of the application.

Ad Re VI.:

1. The document D2 indicated in the search report as a P-document is not to be regarded as state of the art, as the date of priority claimed can be allowed for the relevant parts of the present application.

Ad Re VII.:

1. It is at present not apparent which part of the application could serve as a basis for a new, allowable claim. Should the applicant nevertheless regard some particular matter as patentable an independent claim including such matter should be filed. The applicant should also indicate in the letter of reply the difference of the subject-matter of the new claim vis-à-vis the state of the art and the significance thereof.